# FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) OFFICE OF AIR MANAGEMENT

## Siemens Westinghouse Power Corporation
## 408 South Shelby Street
## Hobart, Indiana 46342-9990

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

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|---|---|
| Operation Permit No.: F089-11030-00416 | |
| Issued by:<br>Paul Dubenetzky, Branch Chief<br>Office of Air Management | Issuance Date: |

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# SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

## A.1 General Information [326 IAC 2-8-3(b)]

The Permittee owns and operates a stationary electrical motor repair shop.

| | |
|---|---|
| Authorized Individual: | Mahmoud Mazaheri |
| Source Address: | 408 South Shelby Street, Hobart, Indiana 46342-9990 |
| Mailing Address: | 408 South Shelby Street, Hobart, Indiana 46342-9990 |
| Phone Number: | (219) 942-8585 |
| SIC Code: | 3599 |
| County Location: | Lake |
| County Status: | Nonattainment for particulate matter 10 microns or less in diameter (PM-10), ozone, and sulfur dioxide ($SO_2$);<br>Attainment for all other criteria pollutants |
| Source Status: | Federally Enforceable State Operating Permit (FESOP)<br>Minor Source, under Emission Offset Rules;<br>Minor Source, Section 112 of the Clean Air Act |

## A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

This stationary source consists of the following emission units and pollution control devices:

(a) One (1) paint booth, with a maximum capacity to coat 0.125 small motors per hour for and 0.05 large motors per hour, utilizing a dry filter for particulate control, exhausting through Stack ID # E-7;

(b) Two (2) burn-off- ovens, each with a maximum heat input capacity of 0.3 million British thermal units (MMBtu) per hour for small motors and 2 MMBtu per hour for large motors, each utilizing electric fuel and natural gas, respectively, each exhausting through Stacks ID # E-3 and E-10, respectively;

(c) Three (3) blasting units, each identified as Goff Blast Cabinet, Parts Cleaner, and Pangborn Unit, each with a maximum capacity 3.3, 1.25, and 5 tons per year, respectively, each utilizing a dust collector for particulate control, each exhausting through Stacks ID # E-1, E-5, and E-10, respectively; and

(d) Two (2) pneumatic abrasive blasting units, identified as Units #1 and 2, each with a maximum blasting rate of 1000 pounds of non-silica sand per hour, each utilizing a baghouse for particulate control, exhausting through stacks ID #BH-1 and BH-2.

## A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]

This stationary source does not currently have any insignificant activities, as defined in 326 IAC 2-7-1(21).

## A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM) for a Federally Enforceable State Operating Permit (FESOP).

## A.5 Prior Permit Conditions

(a) This permit shall be used as the primary document for determining compliance with applicable requirements established by previously issued permits.

(b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, including any term or condition from a previously issued construction or operation permit, IDEM, OAM shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued.

## SECTION B GENERAL CONDITIONS

B.1 Permit No Defense [IC 13]

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

B.2 Definitions [326 IAC 2-8-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, any applicable definitions found in IC 13-11, 326 IAC 1-2, and 326 IAC 2-7 shall prevail.

B.3 Permit Term [326 IAC 2-8-4(2)]

This permit is issued for a fixed term of five (5) years from the effective date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3.

B.4 Enforceability [326 IAC 2-8-6]

(a) All terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM.

(b) Unless otherwise stated, terms and conditions of this permit, including any provisions to limit the source's potential to emit, are enforceable by the United States Environmental Protection Agency (U.S. EPA) and citizens under the Clean Air Act.

B.5 Termination of Right to Operate [326 IAC 2-8-9] [326 IAC 2-8-3(h)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-9.

B.6 Severability [326 IAC 2-8-4(4)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.7 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

This permit does not convey any property rights of any sort, or any exclusive privilege.

B.8 Duty to Supplement and Provide Information [326 IAC 2-8-3(f)] [326 IAC 2-8-4(5)(E)]

(a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

(b) The Permittee shall furnish to IDEM, OAM within a reasonable time, any information that IDEM, OAM may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit.

(c) Upon request, the Permittee shall also furnish to IDEM, OAM copies of records required to be kept by this permit. If the Permittee wishes to assert a claim of confidentiality over any of the furnished records, the Permittee must furnish such records to IDEM, OAM along with a claim of confidentiality under 326 IAC 17. If requested by IDEM, OAM, or the U.S. EPA, to furnish copies of requested records directly to U. S. EPA, and if the Permittee is making a claim of confidentiality regarding the furnished records, the Permittee must furnish such confidential records directly to the U.S. EPA along with a claim of confidentiality under 40 CFR 2, Subpart B.

B.9 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAM may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.10 Compliance with Permit Conditions [326 IAC 2-8-4(5)(A)] [326 IAC 2-8-4(5)(B)]

(a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit, except those specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act and is grounds for:

(1) Enforcement action;

(2) Permit termination, revocation and reissuance, or modification; and

(3) Denial of a permit renewal application.

(b) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

B.11 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]

(a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted under this permit shall contain certification by a authorized individual of truth, accuracy, and completeness. This certification, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

(b) One (1) certification shall be included, on the attached Certification Form, with each submittal.

(c) An authorized individual is defined at 326 IAC 2-1.1-1(1).

B.12 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

(a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The certification shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than April 15 of each year to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

(b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, on or before the date it is due.

(c) The annual compliance certification report shall include the following:

(1) The identification of each term or condition of this permit that is the basis of the certification;

(2) The compliance status;

(3) Whether compliance was based on continuous or intermittent data;

(4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and

(5) Such other facts as specified in Sections D of this permit, IDEM, OAM may require to determine the compliance status of the source.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.13 Preventive Maintenance Plan [326 IAC 1-6-3][326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]

(a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMP) within ninety (90) days after issuance of this permit, including the following information on each facility:

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions;

(3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If due to circumstances beyond its control, the PMP cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

(b) The Permittee shall implement the Preventive Maintenance Plans as necessary to ensure that failure to implement the Preventive Maintenance Plan does not cause or contribute to a violation of any limitation on emissions or potential to emit.

(c) PMP's shall be submitted to IDEM, OAM upon request and shall be subject to review and approval by IDEM, OAM. IDEM, OAM may require the Permittee to revise its Preventive Maintenance Plan whenever lack of proper maintenance causes or contributes to any violation.

B.14 Emergency Provisions [326 IAC 2-8-12]

(a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-8-12.

(b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes the following:

(1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;

(2) The permitted facility was at the time being properly operated;

(3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;

(4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAM, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone No.: 1-800-451-6027 (ask for Office of Air Management, Compliance Section) or,
Telephone No.: 317-233-5674 (ask for Compliance Section)
Facsimile No.: 317-233-5967

Failure to notify IDEM, OAM, by telephone or facsimile within four (4) daytime business hours after the beginning of the emergency, or after the emergency is discovered or reasonably should have been discovered, shall constitute a violation of 326 IAC 2-8 and any other applicable rules. [326 IAC 2-8-12(f)]

(5) For each emergency lasting one (1) hour or more, the Permittee submitted notice either in writing or facsimile, of the emergency to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

(A) A description of the emergency;

(B) Any steps taken to mitigate the emissions; and

(C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the

certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(6) The Permittee immediately took all reasonable steps to correct the emergency.

(c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

(d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions) for sources subject to this rule after the effective date of this rule. This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.

(e) IDEM, OAM may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.

(f) Failure to notify IDEM, OAM, by telephone or facsimile of an emergency lasting more than one (1) hour in compliance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.

(g) Operations may continue during an emergency only if the following conditions are met:

(1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

(2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:

(A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and

(B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

(a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provision), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

within ten (10) calendar days from the date of the discovery of the deviation.

(b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit or a rule. It does not include:

(1) An excursion from compliance monitoring parameters as identified in Section D

of this permit unless tied to an applicable rule or limit; or

(2) An emergency as defined in 326 IAC 2-7-1(12); or

(3) Failure to implement elements of the Preventive Maintenance Plan unless such failure has caused or contributed to a deviation.

(4) Failure to make or record information required by the compliance monitoring provisions of Section D unless such failure exceeds 5% of the required data in any calendar quarter.

A Permittee's failure to take the appropriate response step when an excursion of a compliance monitoring parameter has occurred is a deviation.

(c) Written notification shall be submitted on the attached Emergency/Deviation Occurrence Reporting Form or its substantial equivalent. The notification does not need to be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(d) Proper notice submittal under 326 IAC 2-7-16 satisfies the requirement of this subsection.

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination [326 IAC 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8]

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a FESOP modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)]

(b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAM determines any of the following:

(1) That this permit contains a material mistake.

(2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.

(3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]

(c) Proceedings by IDEM, OAM, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]

(d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAM, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAM, may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

B.17 Permit Renewal [326 IAC 2-8-3(h)]

(a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAM and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, IN 46206-6015

(b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]

(1) A timely renewal application is one that is:

(A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and

(B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, on or before the date it is due.

(2) If IDEM, OAM upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.

(c) Right to Operate After Application for Renewal [326 IAC 2-8-9]
If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAM takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAM, any additional information identified as needed to process the application.

B.18 Permit Amendment or Modification [326 IAC 2-8-10] [326 IAC 2-8-11.1]

(a) The Permittee must comply with the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

Any such application should be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1(1) only if a certification is required by the terms of the applicable rule.

(c) The Permittee may implement the administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.19 Operational Flexibility [326 IAC 2-8-15]

(a) The Permittee may make any change or changes at this source that are described in 326 IAC 2-8-15(b) through (d), without prior permit revision, if each of the following conditions is met:

(1) The changes are not modifications under any provision of Title I of the Clean Air

Act;

(2) Any approval required by 326 IAC 2-1.1 has been obtained;

(3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

(4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

(5) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-8-15(b) through (d) and makes such records available, upon reasonable request, to public review.

Such records shall consist of all information required to be submitted to IDEM, OAM, in the notices specified in 326 IAC 2-8-15(b), (c)(1), and (d).

(b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-8-15(a) and the following additional conditions:

(1) A brief description of the change within the source;

(2) The date on which the change will occur;

(3) Any change in emissions; and

(4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted by the Permittee does not require the certification by the “authorized individual” as defined by 326 IAC 2-1.1-1.

(c) Emission Trades [326 IAC 2-8-15(c)]
The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).

(d) Alternative Operating Scenarios [326 IAC 2-8-15(d)]
The Permittee may make changes at the source within the range of alternative operating

scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAM or U.S. EPA is required.

(e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.20 Construction Permit Requirement [326 IAC 2]

A modification, construction, or reconstruction shall be approved if required by and in accordance with the applicable provisions of 326 IAC 2.

B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAM, U.S. EPA, or an authorized representative to perform the following:

(a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

(b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

(d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and

(e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements. [326 IAC 2-8-5(a)(4)]

B.22 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

(a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.

(b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The application which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request.

[326 IAC 2-8-11(b)(3)]

B.23 Annual Fee Payment [326 IAC 2-8-4(6)][326 IAC 2-8-16]

(a) The Permittee shall pay annual fees to IDEM, OAM, within thirty (30) calendar days of receipt of a billing. If the Permittee does not receive a bill from IDEM, OAM the applicable fee is due April 1 of each year.

(b) Failure to pay may result in administrative enforcement action, or revocation of this permit.

(c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-0425 (ask for OAM, Technical Support and Modeling Section), to determine the appropriate permit fee.

B.24 Advanced Source Modification Approval [326 IAC 2-8-4(11)]

The requirements to obtain a permit revision under 326 IAC 2-8-11.1 are satisfied by this permit for the proposed emission units, control equipment or insignificant activities in Sections A.2 and A.3 if such modifications occur during the term of this permit.

# SECTION C SOURCE OPERATION CONDITIONS

Entire Source

**Emissions Limitations and Standards [326 IAC 2-8-4(1)]**

C.1 Overall Source Limit [326 IAC 2-8]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

(a) Pursuant to 326 IAC 2-8:

(1) The potential to emit volatile organic compounds (VOCs) from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period. This limitation shall also satisfy the requirements of 326 IAC 2-3 (Emission Offset);

(2) The potential to emit any regulated pollutant from the entire source, except volatile organic compounds (VOCs), shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period;

(3) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and

(4) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.

(b) Pursuant to 326 IAC 2-3 (Emission Offset), emissions of particulate matter (PM) from the entire source shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period.

(c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided the source's potential to emit does not exceed the above specified limits.

(d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), visible emissions shall meet the following, unless otherwise stated in this permit:

(a) Opacity shall not exceed an average of twenty percent (20%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor in a six (6) hour period.

C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. 326 IAC 4-1-3(a)(2)(A) and (B) are not federally enforceable.

C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and in 326 IAC 9-1-2. The provisions of 326 IAC 9-1-2 are not federally enforceable.

C.5 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) is not federally enforceable.

C.6 Operation of Equipment [326 IAC 2-8-5(a)(4)]

Except as otherwise provided in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.

C.7 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted.

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61.140]

(a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.

(b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:

(1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or

(2) If there is a change in the following:

(A) Asbestos removal or demolition start date;

(B) Removal or demolition contractor; or

(C) Waste disposal site.

(c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).

(d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The notifications do not require a certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4 emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

(f) Indiana Accredited Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited is federally enforceable.

**Testing Requirements [326 IAC 2-8-4(3)]**

C.9 Performance Testing [326 IAC 3-6]

(a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAM.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The Permittee shall submit a notice of the actual test date to the above address so that it is received at least two weeks prior to the test date.

(b) All test reports must be received by IDEM, OAM within forty-five (45) days after the completion of the testing. An extension may be granted by the IDEM, OAM, if the source submits to IDEM, OAM, a reasonable written explanation within five (5) days prior to the end of the initial forty-five (45) day period.

The documentation submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

**Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

C.10 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]

Compliance with applicable requirements shall be documented as required by this permit. All monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

in writing, prior to the end of the initial ninety (90) day compliance schedule with full justification of the reasons for inability to meet this date.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

C.11 Monitoring Methods [326 IAC 3]

Any monitoring or testing performed required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, or other approved methods as specified in this permit.

C.12 Pressure Gauge Specifications

Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent (±2%) of full scale reading.

**Corrective Actions and Response Steps [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]**

C.13 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68.215]

If a regulated substance, subject to 40 CFR 68, is present at a source in more than a threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall:

(a) Submit:

(1) A compliance schedule for meeting the requirements of 40 CFR 68 by the date provided in 40 CFR 68.10(a); or

(2) As a part of the compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP); and

(3) A verification to IDEM, OAM that a RMP or a revised plan was prepared and submitted as required by 40 CFR 68.

(b) Provide annual certification to IDEM, OAM that the Risk Management Plan is being properly implemented.

All documents submitted pursuant to this condition shall include the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

C.14 Compliance Monitoring Plan - Failure to Take Response Steps [326 IAC 2-8-4][326 IAC 2-8-5] [326 IAC 1-6]

(a) The Permittee is required to implement a compliance monitoring plan to ensure that reasonable information is available to evaluate its continuous compliance with applicable requirements. This compliance monitoring plan is comprised of:

(1) This condition;

(2) The Compliance Determination Requirements in Section D of this permit;

(3) The Compliance Monitoring Requirements in Section D of this permit;

(4) The Record Keeping and Reporting Requirements in Section C (Monitoring Data Availability, General Record Keeping Requirements, and General Reporting Requirements) and in Section D of this permit; and

(5) A Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. CRP's shall be submitted to IDEM, OAM upon request and shall be subject to review and approval by IDEM, OAM. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee and maintained on site, and is comprised of :

(A) Response steps that will be implemented in the event that compliance related information indicates that a response step is needed pursuant to the requirements of Section D of this permit; and

(B) A time schedule for taking such response steps including a schedule for devising additional response steps for situations that may not have been predicted.

(b) For each compliance monitoring condition of this permit, appropriate response steps shall be taken when indicated by the provisions of that compliance monitoring condition. Failure to perform the actions detailed in the compliance monitoring conditions or failure to take the response steps within the time prescribed in the Compliance Response Plan, shall constitute a violation of the permit unless taking the response steps set forth in the Compliance Response Plan would be unreasonable.

(c) After investigating the reason for the excursion, the Permittee is excused from taking further response steps for any of the following reasons:

(1) The monitoring equipment malfunctioned, giving a false reading. This shall be an excuse from taking further response steps providing that prompt action was taken to correct the monitoring equipment.

(2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied or;

(3) An automatic measurement was taken when the process was not operating; or

(4) The process has already returned to operating within "normal" parameters and no response steps are required.

(d) Records shall be kept of all instances in which the compliance related information was

not met and of all response steps taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.

C.15 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4] [326 IAC 2-8-5]

(a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate corrective actions. The Permittee shall submit a description of these corrective actions to IDEM, OAM, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize emissions from the affected facility while the corrective actions are being implemented. IDEM, OAM shall notify the Permittee within thirty (30) days, if the corrective actions taken are deficient. The Permittee shall submit a description of additional corrective actions taken to IDEM, OAM within thirty (30) days of receipt of the notice of deficiency. IDEM, OAM reserves the authority to use enforcement activities to resolve noncompliant stack tests.

(b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAM that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAM may extend the retesting deadline. Failure of the second test to demonstrate compliance with the appropriate permit conditions may be grounds for immediate revocation of the permit to operate the affected facility.

The documents submitted pursuant to this condition do not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

**Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]**

C.16 Emission Statement [326 IAC 2-6] [326 IAC 2-8-4(3)]

(a) The Permittee shall submit an annual emission statement certified pursuant to the requirements of 326 IAC 2-6. This annual statement must be received by April 15 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8) (Emission Statement Operating Year). The annual statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

(b) The annual emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM on or before the date it is due.

C.17 Monitoring Data Availability

(a) With the exception of performance tests conducted in accordance with Section C-Performance Testing all observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions.

(b) As an alternative to the observations, sampling, maintenance procedures, and record

keeping of subsection (a) above, when the equipment listed in Section D of this permit is not operating, the Permittee shall either record the fact that the equipment is shut down or perform the observations, sampling, maintenance procedures, and record keeping that would otherwise be required by this permit.

(c) If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality.

(d) If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded.

(e) At its discretion, IDEM may excuse such failure providing adequate justification is documented and such failures do not exceed five percent (5%) of the operating time in any quarter.

(f) Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason for failure to perform the requirements in (a) above.

C.18 General Record Keeping Requirements [326 IAC 2-8-4(3)][326 IAC 2-8-5]

(a) Records of all required monitoring data and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years and available upon the request of an IDEM, OAM representative. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a written request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

(b) Records of required monitoring information shall include, where applicable:

(1) The date, place, and time of sampling or measurements;

(2) The dates analyses were performed;

(3) The company or entity performing the analyses;

(4) The analytic techniques or methods used;

(5) The results of such analyses; and

(6) The operating conditions existing at the time of sampling or measurement.

(c) Support information shall include, where applicable:

(1) Copies of all reports required by this permit;

(2) All original strip chart recordings for continuous monitoring instrumentation;

(3) All calibration and maintenance records;

(4) Records of preventive maintenance shall be sufficient to demonstrate that failure to implement the Preventive Maintenance Plan did not cause or

contribute to a violation of any limitation on emissions or potential to emit. To be relied upon subsequent to any such violation, these records may include, but are not limited to: work orders, parts inventories, and operator's standard operating procedures. Records of response steps taken shall indicate whether the response steps were performed in accordance with the Compliance Response Plan required by Section C - Compliance Monitoring Plan - Failure to take Response Steps, of this permit, and whether a deviation from a permit condition was reported. All records shall briefly describe what maintenance and response steps were taken and indicate who performed the tasks.

(d) All record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.19 General Reporting Requirements [326 IAC 2-8-4(3)(C)]

(a) To affirm that the source has met all the compliance monitoring requirements stated in this permit the source shall submit a Quarterly Compliance Monitoring Report. Any deviation from the requirements and the date(s) of each deviation must be reported. The Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC2-1.1-1(1).

(b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

(c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM on or before the date it is due.

(d) Unless otherwise specified in this permit, any quarterly report shall be submitted within thirty (30) days of the end of the reporting period. The reports do not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(e) All instances of deviations as described in Section B- Deviations from Permit Requirements Conditions must be clearly identified in such reports. The Emergency/Deviation Occurrence Report does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(f) Any corrective actions or response steps taken as a result of each deviation must be clearly identified in such reports.

(g) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period.

**Stratospheric Ozone Protection**

## C.20 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

(a) Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices pursuant to 40 CFR 82.156

(b) Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.

(c) Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

## SECTION D.1 FACILITY OPERATION CONDITIONS

**Facility Description [326 IAC 2-8-4(10)]:**
One (1) paint booth, with a maximum capacity to coat 0.125 small motors per hour for and 0.05 large motors per hour, utilizing a dry filter for particulate control, exhausting through Stack ID # E-7.

### Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.1.1 Volatile Organic Compounds (VOC) [326 IAC 8-2-9]

Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operation) and CP089-3886-00416, issued on January 26, 1995, the volatile organic compound (VOC) content of air dried or forced warm air dried coating applied to the electrical motors shall be limited to 3.5 pounds of VOC per gallon of coating delivered to the applicator less water.

D.1.2 Emission Offset Minor Limit [326 IAC 2-3]

Pursuant to CP-089-3886-00416, issued on January 26, 1995, the input volatile organic compound (VOC) to the applicator of the paint booth coating used for small and large electrical motors shall be limited to 4,000 pounds per month (2 tons per month). This usage limit is required to limit the potential to emit of VOC to less than 25 tons per year. Any change or modification which may increase VOC potential emissions to 25 tons per year from the equipment covered in this permit shall obtain approval from the Office of Air Management (OAM), as required by 326 IAC 2-1 before such change can occur. Compliance with this limit makes 326 IAC 2-3 (Emission Offset) not applicable.

D.1.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and any control devices.

### Compliance Determination Requirements

D.1.4 Testing Requirements [326 IAC 2-8-5(a)(1), (4)][326 IAC 2-1.1-11]

The Permittee is not required to test this facility by this permit. However, IDEM may require compliance testing when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the VOC limit specified in Conditions D.1.1 and D.1.2 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

D.1.5 Volatile Organic Compounds (VOC)

Compliance with the VOC content and usage limitations contained in Conditions D.1.1 and D.1.2 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) using formulation data supplied by the coating manufacturer. IDEM, OAM reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

D.1.6 VOC Emissions

Compliance with Conditions D.1.1 and d.1.2 shall be demonstrated within 30 days of the end of each month based on the total volatile organic compound usage for the most recent month.

**Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

D.1.7 Record Keeping Requirements

(a) To document compliance with Conditions D.1.1 and D.1.2, the Permittee shall maintain records in accordance with (1) through (5) below. Records maintained for (1) through (5) shall be taken monthly and shall be complete and sufficient to establish compliance with the VOC usage limits and/or the VOC emission limits established in Conditions D.1.1 and D.1.2.

(1) The amount and VOC content of each coating material and solvent used. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used. Solvent usage records shall differentiate between those added to coatings and those used as cleanup solvents;

(2) A log of the dates of use;

(3) The cleanup solvent usage for each month;

(4) The total VOC usage for each month; and

(5) The weight of VOCs emitted for each compliance period.

(b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.8 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.2 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported.

## SECTION D.2 FACILITY OPERATION CONDITIONS

**Facility Description [326 IAC 2-8-4(10)]:**
Two (2) burn-off- ovens, each with a maximum heat input capacity of 0.3 million British thermal units (MMBtu) per hour for small motors and 2 MMBtu per hour for large motors, each utilizing electric fuel and natural gas, respectively, each exhausting through Stacks ID # E-3 and E-10, respectively.

### Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.2.1 Particulate Matter (PM) [326 IAC 4-2]

Pursuant to 326 IAC 4-2 (Incinerators) and CP089-3886-00416, issued on January 26, 1995, the burn-off ovens for small and large motors repair shall:

(a) consists of primary and secondary chambers;

(b) be equipped with primary burner;

(c) comply with other states and/or local rules/ordinances regarding installation and operation of incinerates;

(d) be operated so that emission of hazardous material, including, but not limited to, viable pathogenic bacteria, dangerous chemical or gases, or noxious odors are prevented;

(e) be operated according to the manufacturer's recommendation and only burn approved waste (varnish and epoxy);

(f) not exceed an average of 20% opacity in 24 consecutive readings; and

(g) shall not emit particulate matter (PM) in excess of 0.5 pound of PM per 1000 of dry exhaust gas at standard conditions corrected to 50% excess air.

D.2.2 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and its control device.

### Compliance Determination Requirements

D.2.3 Testing Requirements [326 IAC 2-8-5(a)(1), (4)][326 IAC 2-1.1-11]

The Permittee is not required to test this facility by this permit. However, IDEM may require compliance testing when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the PM limit specified in Condition D.2.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

### Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.2.4 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.2.1 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported.

## SECTION D.3 FACILITY OPERATION CONDITIONS

**Facility Description [326 IAC 2-8-4(10)]:**
Three (3) blasting units, each identified as Goff Blast Cabinet, Parts Cleaner, and Pangborn Unit, each with a maximum capacity 3.3, 1.25, and 5 tons per year, respectively, each utilizing a dust collector for particulate control, each exhausting through Stacks ID # E-1, E-5, and E-10, respectively.

**Emission Limitations and Standards [326 IAC 2-8-4(1)]**

D.3.1 Particulate Matter (PM) [326 IAC 6-3]

Pursuant to 326 IAC 6-3 (Process Operations) and CP089-3886-00416, issued on January 26, 1995, the allowable PM emission rate from the three (3) blasting units (Goff Blast Cabinet, Parts Cleaner, and Pangborn Unit) shall not exceed the following pounds per hour when operating at the appropriate process weight rate in tons per hour:

| UNIT | Process Weight Rate (pounds per hour) | Allowable Emissions (pounds per hour) |
|---|---|---|
| Goff Blast Cabinet | 20,000 lb/3-hour | 9 |
| Parts Cleaner | 40,000 lb/16-hour | 5 |
| Pangborn Unit | 40,000 lb/4-hour | 12 |

The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

D.3.2 Emission Offest Minor Limit [326 IAC 2-3]

Pursuant to 326 IAC 2-3, the particulate matter emissions are limited as follows:

(a) The Goff Blast Cabinet shall not exceed 0.15 tons per 12 consecutive month period, rolled on a monthly basis;

(b) The Parts Cleaner shall not exceed 0.04 tons per 12 consecutive month period, rolled on a monthly basis; and

(c) The Pangborn Unit shall not exceed 27.70 tons per 12 consecutive month period, rolled on a monthly basis.

Compliance with this limit makes 326 IAC 2-3 (Emission Offset) not applicable.

D.3.3 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and its control device.

**Compliance Determination Requirements**

D.3.4 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

The Permittee is not required to test this facility by this permit. However, IDEM may require compliance testing when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the PM limit specified in Condition D.3.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

D.3.5 Particulate Matter (PM)

Pursuant to CP089-3886-00416, issued on January 26, 1995, the dust collectors for PM control shall be in operation and control emissions from the three (3) blasting units (Goff Blast Cabinet, Parts Cleaner, and Pangborn Unit) at all times that the three (3) blasting units (Goff Blast Cabinet, Parts Cleaner, and Pangborn Unit) are in operation.

**Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

D.3.6 Visible Emissions Notations

(a) Daily visible emission notations of the three (3) blasting units (Goff Blast Cabinet, Parts Cleaner, and Pangborn Unit) stack exhaust shall be performed during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

D.3.7 Parametric Monitoring

The Permittee shall record the total static pressure drop across the dust collectors used in conjunction with the three (3) blasting units (Goff Blast Cabinet, Parts Cleaner, and Pangborn Unit), at least once per shift when the three (3) blasting units (Goff Blast Cabinet, Parts Cleaner, and Pangborn Unit) are in operation when venting to the atmosphere. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the dust collectors shall be maintained within the range of 2.0 and 6.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge Specifications, of this permit, shall be subject to approval by IDEM, OAM, and shall be calibrated at least once every six (6) months.

D.3.8 Dust Collector Inspections

An inspection shall be performed each calender quarter of all bags controlling the three (3) blasting units (Goff Blast Cabinet, Parts Cleaner, and Pangborn Unit) when venting to the atmosphere. A dust collector inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. All defective bags shall be replaced.

D.3.9 Broken or Failed Bag Detection

In the event that bag failure has been observed:

(a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

(b) For single compartment dust collectors, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

**Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

D.3.10 Record Keeping Requirements

(a) To document compliance with Condition D.3.6**,** the Permittee shall maintain records of daily visible emission notations of the three (3) blasting units (Goff Blast Cabinet, Parts Cleaner, and Pangborn Unit) stack exhaust.

(b) To document compliance with Condition D.3.7, the Permittee shall maintain the following:

(1) Daily records of the following operational parameters during normal operation when venting to the atmosphere:

(A) Inlet and outlet differential static pressure; and

(B) Cleaning cycle: frequency and differential pressure**.**

(2) Documentation of all response steps implemented, per event .

(3) Operation and preventive maintenance logs, including work purchases orders, shall be maintained.

(4) Quality Assurance/Quality Control (QA/QC) procedures.

(5) Operator standard operating procedures (SOP).

(6) Manufacturer's specifications or its equivalent.

(7) Equipment "troubleshooting" contingency plan.

(8) Documentation of the dates vents are redirected.

(b) To document compliance with Condition D.3.8, the Permittee shall maintain records of the results of the inspections required under Condition D.3.8 and the dates the vents are redirected.

(c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.3.11 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.3.1 shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported.

## SECTION D.4 FACILITY CONDITIONS

**Facility Description [326 IAC 2-8-4(10)]:**
Two (2) pneumatic abrasive blasting units, identified as Units #1 and 2, each with a maximum blasting rate of 1000 pounds of non-silica sand per hour, each utilizing a baghouse for particulate control, exhausting through stacks ID #BH-1 and BH-2.

THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2-1 AND 326 IAC 2-8-11.1, WITH CONDITIONS LISTED BELOW.

### Construction Conditions

**General Construction Conditions**

D.4.1 This permit to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

**Effective Date of the Permit**

D.4.2 Pursuant to IC 13-15-5-3, this section of this permit becomes effective upon its issuance.

**Effective Date of the Permit**

D.4.3 All requirements of these construction conditions shall remain in effect unless modified in a manner consistent with procedures established for revisions pursuant to 326 IAC 2.

### Operation Conditions

**Emission Limitations and Standards [326 IAC 2-8-4(1)]**

D.4.4 Particulate Matter (PM) [326 IAC 6-3] [326 IAC 2-3]

Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from the two (2) pneumatic blasting units shall not exceed 2.58 pounds per hour, respectively when operating at a process weight rate of 0.5 pounds per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$ where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

D.4.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and its control device.

**Compliance Determination Requirements**

D.4.6 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

The Permittee is not required to test this facility by this permit. However, IDEM may require compliance testing when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance with the PM limit specified in Condition D.4.4 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

D.4.7 Particulate Matter (PM)

The baghouses for PM control shall be in operation and control emissions from the two (2) pneumatic blasting units at all times that the two (2) pneumatic blasting units are in operation.

**Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]**

D.4.8 Visible Emissions Notations

(a) Daily visible emission notations of the two (2) pneumatic blasting units stack exhaust shall be performed during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.

(b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.

(c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.

(d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

(e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

D.4.9 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouses used in conjunction with the two (2) pneumatic blasting units, at least once per shift when the two (2) pneumatic blasting units are in operation when venting to the atmosphere. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the baghouses shall be maintained within the range of 2.0 and 6.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge Specifications, of this permit, shall be subject to approval by IDEM, OAM, and shall be calibrated at least once every six (6) months.

D.4.10 Baghouse Inspections

An inspection shall be performed each calender quarter of all bags controlling the two (2) pneumatic blasting units when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting to the indoors. All defective bags shall be replaced.

D.4.11 Broken or Failed Bag Detection

In the event that bag failure has been observed:

(a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced. Within eight (8) hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) hours of discovery of the failure and shall include a timetable for completion. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

(b) For single compartment baghouse, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

**Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]**

D.4.12 Record Keeping Requirements

(a) To document compliance with Condition D.4.8**,** the Permittee shall maintain records of daily visible emission notations of the two (2) pneumatic blasting units stack exhaust.

(b) To document compliance with Condition D.4.9, the Permittee shall maintain the following:

(1) Daily records of the following operational parameters during normal operation when venting to the atmosphere:

(A) Inlet and outlet differential static pressure; and

(B) Cleaning cycle: frequency and differential pressure**.**

(2) Documentation of all response steps implemented, per event .

(3) Operation and preventive maintenance logs, including work purchases orders, shall be maintained.

(4) Quality Assurance/Quality Control (QA/QC) procedures.

(5) Operator standard operating procedures (SOP).

(6) Manufacturer's specifications or its equivalent.

(7) Equipment "troubleshooting" contingency plan.

(8) Documentation of the dates vents are redirected.

(b) To document compliance with Condition D.4.10, the Permittee shall maintain records of the results of the inspections required under Condition D.4.10 and the dates the vents are redirected.

(c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
# OFFICE OF AIR MANAGEMENT
# COMPLIANCE DATA SECTION

## FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) CERTIFICATION

Source Name: Siemens Westinghouse Power Corporation
Source Address: 408 South Shelby Street, Hobart, Indiana 46342
Mailing Address: 408 South Shelby Street, Hobart, Indiana 46342
FESOP No.: F089-11030-00416

**This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.**

Please check what document is being certified:

**9** Annual Compliance Certification Letter

**9** Test Result (specify) _____

**9** Report (specify) _____

**9** Notification (specify) _____

**9** Other (specify) _____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
# OFFICE OF AIR MANAGEMENT

**COMPLIANCE DATA SECTION**
**P.O. Box 6015**
**100 North Senate Avenue**
**Indianapolis, Indiana 46206-6015**
**Phone: 317-233-5674**
**Fax: 317-233-5967**

## FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
## EMERGENCY/DEVIATION OCCURRENCE REPORT

Source Name: Siemens Westinghouse Power Corporation
Source Address: 408 South Shelby Street, Hobart, Indiana 46342
Mailing Address: 408 South Shelby Street, Hobart, Indiana 46342
FESOP No.: F089-11030-00416

**This form consists of 2 pages** **Page 1 of 2**

| Check either No. 1 or No.2 |
|---|
| 9 1. This is an emergency as defined in 326 IAC 2-7-1(12)<br>CThe Permittee must notify the Office of Air Management (OAM), within four (**4**) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and<br>CThe Permittee must submit notice in writing or by facsimile within two (**2**) days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16 |
| 9 2. This is a deviation, reportable per 326 IAC 2-8-4(3)(C)<br>CThe Permittee must submit notice in writing within ten (**10**) calendar days |

If any of the following are not applicable, mark N/A

| |
|---|
| Facility/Equipment/Operation: |
| Control Equipment: |
| Permit Condition or Operation Limitation in Permit: |
| Description of the Emergency/Deviation: |
| Describe the cause of the Emergency/Deviation: |

| |
|---|
| Date/Time Emergency/Deviation started: |
| Date/Time Emergency/Deviation was corrected: |
| Was the facility being properly operated at the time of the emergency/deviation? Y N<br>Describe: |
| Type of Pollutants Emitted: TSP, PM-10, $SO_2$, VOC, $NO_X$, CO, Pb, other: |
| Estimated amount of pollutant(s) emitted during emergency/deviation: |
| Describe the steps taken to mitigate the problem: |
| Describe the corrective actions/response steps taken: |
| Describe the measures taken to minimize emissions: |
| If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value: |

Form Completed by: _____
Title / Position: _____
Date: _____
Phone: _____

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**

# OFFICE OF AIR MANAGEMENT
# COMPLIANCE DATA SECTION

## FESOP Quarterly Report

Source Name: Siemens Westinghouse Power Corporation
Source Address: 408 South Shelby Street, Hobart, Indiana 46342
Mailing Address: 408 South Shelby Street, Hobart, Indiana 46342
FESOP No.: F089-11030-00416
Facility: Paint booth
Parameter: volatile organic compounds (VOC)
Limit: The input volatile organic compound (VOC) to the applicator of the paint booth coating used for small and large electrical motors shall be limited to 4,000 pounds per month (2 tons per month).

YEAR: _____

| Process | Allowable VOC (lb/month) | Actual VOC (lb/month) |
|---|---|---|
| Paint Booth | 4,000 | |

**9** No deviation occurred in this quarter.

**9** Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**
**OFFICE OF AIR MANAGEMENT**
**COMPLIANCE DATA SECTION**

## FESOP Quarterly Report

Source Name: Siemens Westinghouse Power Corporation
Source Address: 408 South Shelby Street, Hobart, Indiana 46342
Mailing Address: 408 South Shelby Street, Hobart, Indiana 46342
FESOP No.: F089-11030-00416
Facility: Two (2) burn-off ovens
Parameter: Particulate Matter (PM)
Limit: 0.5 pounds of PM per 1000 of dry gas at standard conditions

YEAR: _____

| Equipment | Limit | Actual PM Emissions (lb) |
|---|---|---|
| Burn-off Oven (E-3) | 0.5 pounds of PM per 1000 of dry gas at standard conditions | |
| Burn-off Oven (E-9) | | |

**9** No deviation occurred in this quarter.

**9** Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**
**OFFICE OF AIR MANAGEMENT**

# COMPLIANCE DATA SECTION

## FESOP Quarterly Report

Source Name: Siemens Westinghouse Power Corporation
Source Address: 408 South Shelby Street, Hobart, Indiana 46342
Mailing Address: 408 South Shelby Street, Hobart, Indiana 46342
FESOP No.: F089-11030-00416
Facility: Three (3) blasting units
Parameter: Particulate Matter (PM)
Limit: The allowable PM rate cannot exceed the following:

YEAR: _____

| Equipment | Allowable PM Rate (lb/hr) | Actual PM Emissions (lb/hr) |
|---|---|---|
| Goff Blast Cabinet (E-1) | 9 | |
| Parts Cleaner (E-4) | 5 | |
| Pangborn Unit (E-10) | 12 | |
| TOTAL | < 100 tons per year | tons/yr |

**9** No deviation occurred in this quarter.

**9** Deviation/s occurred in this quarter.
Deviation has been reported on: _____

Submitted by: _____
Title / Position: _____
Signature: _____
Date: _____
Phone: _____

# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
# OFFICE OF AIR MANAGEMENT
# COMPLIANCE DATA SECTION

## FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
## QUARTERLY COMPLIANCE MONITORING REPORT

Source Name: Siemens Westinghouse Power Corporation
Source Address: 408 South Shelby Street, Hobart, Indiana 46342
Mailing Address: 408 South Shelby Street, Hobart, Indiana 46342
FESOP No.: F089-11030-00416

**Months:** _____ **to** _____ **Year:** _____

This report is an affirmation that the source has met all the compliance monitoring requirements stated in this permit. This report shall be submitted quarterly. Any deviation from the compliance monitoring requirements and the date(s) of each deviation must be reported. Additional pages may be attached if necessary. This form can be supplemented by attaching the Emergency/Deviation Occurrence Report. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

**9** NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

**9** THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD.

| **Compliance Monitoring Requirement** (eg. Permit Condition D.1.3) | **Number of Deviations** | **Date of each Deviation** |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Form Completed By: _____
Title/Position: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

Mail to: Permit Administration & Development Section
Office Of Air Management
100 North Senate Avenue
P. O. Box 6015
Indianapolis, Indiana 46206-6015

Siemens Westinghouse Power Corporation
408 South Shelby Street
Hobart, Indiana 46342-9990

**Affidavit of Construction**

I, _____, being duly sworn upon my oath, depose and say:
(Name of the Authorized Representative)

1. I live in _____ County, Indiana and being of sound mind and over twenty-one (21) years of age, I am competent to give this affidavit.

2. I hold the position of _____ for _____.
(Title) (Company Name)

3. By virtue of my position with _____,I have personal
(Company Name)
knowledge of the representations contained in this affidavit and am authorized to make these representations on behalf of _____ .
(Company Name)

4. I hereby certify that Siemens Westinghouse Power Corporation, 408 South Shelby Street, Hobart, Indiana, 46342-9990, has constructed two (2) pneumatic abrasive blasting units in conformity with the requirements and intent of the construction permit application received by the Office of Air Management on June 2, 1999 and as permitted pursuant to **FESOP No. 089-11030, Plant ID No. 089-00416** issued on _____

Further Affiant said not.

I affirm under penalties of perjury that the representations contained in this affidavit are true, to the best of my information and belief.

_____
Signature

_____
Date

STATE OF INDIANA)
)SS
COUNTY OF _____ )

Subscribed and sworn to me, a notary public in and for _____ County and State of Indiana on this _____ day of _____, 19 _____ .

My Commission expires: _____

_____
Signature

_____
Name (typed or printed)

# Indiana Department of Environmental Management
# Office of Air Management

## Technical Support Document (TSD) for a Federally Enforceable Operating Permit (FESOP)

**Source Background and Description**

| | |
|---|---|
| **Source Name:** | **Siemens Westinghouse Power Corporation** |
| **Source Location:** | **408 South Shelby Street, Hobart, Indiana 46342-9990** |
| **County:** | **Lake** |
| **SIC Code:** | **3599** |
| **Operation Permit No.:** | **F089-11030-00416** |
| **Permit Reviewer:** | **Yvette de los Angeles/EVP** |

The Office of Air Management (OAM) has reviewed an application from Siemens Westinghouse Power Corporation relating to the construction and operation of an electrical motor repair shop.

**Permitted Emission Units and Pollution Control Equipment**

The source consists of the following permitted emission units and pollution control devices:

(a) One (1) paint booth, with a maximum capacity to coat 0.125 small motors per hour for and 0.05 large motors per hour, utilizing a dry filter for particulate control, exhausting through Stack ID # E-7;

(b) Two (2) burn-off- ovens, each with a maximum heat input capacity of 0.3 million British thermal units (MMBtu) per hour for small motors and 2 MMBtu per hour for large motors, each utilizing electric fuel and natural gas, respectively, each exhausting through Stacks ID # E-3 and E-10, respectively; and

(c) Three (3) blasting units, each identified as Goff Blast Cabinet, Parts Cleaner, and Pangborn Unit, each with a maximum capacity 3.3, 1.25, and 5 tons per year, respectively, each utilizing a dust collector for particulate control, each exhausting through Stacks ID # E-1, E-5, and E-10, respectively.

**Unpermitted Emission Units and Pollution Control Equipment**

There are no unpermitted facilities operating at this source during this review process.

**New Emission Units and Pollution Control Equipment**

The application includes information relating to the construction and operation of the following equipment:

(a) Two (2) pneumatic abrasive blasting units, identified as Units #1 and 2, each with a maximum blasting rate of 1000 pounds of non-silica sand per hour, each utilizing a baghouse for particulate control, exhausting through stacks ID #BH-1 and BH-2.

**Insignificant Activities**

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

(a) Natural gas-fired combustion sources with heat input equal to or less than ten (10) million Btu per hour:

(1) Two (2) natural gas fired bake oven, each with a maximum heat input capacity of 1.28 MMBtu per hour for small motors and 1.6 MMBtu per hour for large motors, each exhausting through Stacks ID # E-6 and E-11, respectively;

(2) One (1) stress relieve furnace, with a maximum heat input capacity of 7.7 MMBtu per hour, exhausting through Stack ID # E-2;

(3) Heaters and air-make up units, with a total maximum heat input capacity of 5.1 MMBtu per hour; and

(b) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6:

(1) One (1) pressure parts cleaner for small motors and one (1) steam cleaning for large motors, each exhausting through Stacks ID # E-4 and E-8, respectively.

**Existing Approvals**

The source has been operating under previous approvals including, but not limited to, the following:

(a) CP089-3886-00416, issued on January 26, 1995;

(b) A089-6473-00416, issued on September 10, 1996; and

(c) A089-10127-00416, issued on October 30, 1998.

**Enforcement Issue**

There are no enforcement actions pending.

**Recommendation**

The staff recommends to the Commissioner that the FESOP be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An administratively complete FESOP application for the purposes of this review was received on June 2, 1999.

**Emission Calculations**

See Appendix A of this document for detailed emissions calculations (six (6) pages).

**Potential To Emit**

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source or emissions unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, the department, or the appropriate local air pollution control agency."

| Pollutant | Potential To Emit (tons/year) |
|---|---|
| PM | 639.68 |
| PM-10 | 640.18 |
| $SO_2$ | 0.00 |
| VOC | 6.16 |
| CO | 6.50 |
| $NO_x$ | 7.70 |

(a) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of PM-10 is equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.

(b) Fugitive Emissions
Since this type of operation is one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and 40 CFR 52.21, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are counted toward the determination of Prevention of Significant Deterioration (PSD) applicability.

(c) This source, otherwise required to obtain a Title V permit, has agreed to accept a permit with federally enforceable limits that restrict its PTE to below the Title V emission levels. Therefore, this source will be issued a Federally Enforceable State Operating Permit (FESOP), pursuant to 326 IAC 2-8.

**Actual Emissions**

No previous emission data has been received from the source.

**Limited Potential to Emit**

(a) The source has accepted a federally enforceable limit on potential to emit PM-10 of less than 100 tons per year, consisting of:

(i) 30.29 tons per year for the significant activities; and

(ii) 0.60 tons per year for the insignificant activities.

(b) The table below summarizes the total limited potential to emit of the significant and insignificant emission units.

| | Limited Potential to Emit (tons/year) | | | | | | |
|---|---|---|---|---|---|---|---|
| Process/facility | PM | PM-10 | $SO_2$ | VOC | CO | $NO_X$ | HAPs |
| Paint Booth | 0.00 | 0.00 | 0.00 | < 25 | 0.00 | 0.00 | 0.00 |
| Goff Blast Cabinet | 0.15 | 0.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Parts Cleaner | 0.04 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pangborn Unit | 27.70 | 27.70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pneumatic Abrasive Blasting Unit #1 | 0.91 | 0.91 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pneumatic Abrasive Blasting Unit #2 | 1.49 | 1.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Insignificant Activities | 0.10 | 0.60 | 0.00 | 0.40 | 6.50 | 7.70 | 0.00 |
| Total Emissions | < 100 | 30.89 | 0.00 | < 25 | 6.50 | 7.70 | 0.00 |

**County Attainment Status**

The source is located in Lake County.

| Pollutant | Status |
|---|---|
| PM-10 | moderate nonattainment |
| $SO_2$ | moderate nonattainment |
| $NO_2$ | attainment |
| Ozone | severe nonattainment |
| CO* | attainment |
| Lead | attainment |

* Only a portion of Lake County is classified as nonattainment for CO. The source is located in Hobart, Indiana which lies outside of the Lake County CO nonattainment area.

(a) Volatile organic compounds (VOC) and oxides of nitrogen ($NO_x$) are precursors for the formation of ozone. Therefore, VOC and NOx emissions are considered when evaluating the rule applicability relating to the ozone standards. Lake County has been designated as nonattainment for ozone. Therefore, VOC and NOx emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.

(b) Lake County has been classified as nonattainment for PM-10 and $SO_2$. Therefore, these emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.

**Federal Rule Applicability**

(a) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) applicable to this source.

(b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14 and 40 CFR Part 63) applicable to this source.

**State Rule Applicability - Entire Source**

326 IAC 2-3 (Emission Offset)

This source is not subject to the requirements of 326 IAC 2-3 (Emission Offset).

(a) Pursuant to CP089-3886-00416, issued on January 26, 1995, the surface coating booth shall limit the input volatile organic compound (VOC) to the applicator of the paint booth used in coating for the small and large electrical motors to 4,000 pounds per month (2 tons per month). This will limit the total VOC emissions to less than 25 tons per year.

(b) Pursuant to CP089-3886-00416, issued on January 26, 1995, three (3) blasting units (Goff Blast Cabinet, Parts Cleaner, and Pangborn Unit) shall be allowed particulate matter (PM) rate as follows, and shall not exceed a total of 100 tons per year:

| Blasting Unit | Allowable PM Rate (pounds per hour) |
|---|---|
| Goff Blast Cabinet | 9 |
| Parts Cleaner | 5 |
| Pangborn Unit | 12 |

(c) The two (2) pneumatic abrasive blasting units shall be allowed particulate matter rate of 2.58 pounds per hour and shall not exceed 100 tons per year.

Therefore, the requirements of 326 IAC 2-3 (Emission Offset) are not applicable.

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting), because it has the potential to emit more than ten (10) tons per year for Lake County of PM-10. Pursuant to this rule, the owner/operator of the source must annually submit an emission statement for the source. The annual statement must be received by April 15 of each year and contain the minimum requirement as specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8)(Emission Statement Operating Year).

326 IAC 2-8-4 (FESOP)

This source is subject to 326 IAC 2-8-4 (FESOP). Pursuant to this rule, the source will limit sourcewide PM-10 emissions to less than 100 tons per year. PM-10 emissions from the three (3) blasting units (Goff Blast Cabinet, Parts Cleaner, and Pangborn Unit) shall not exceed 9, 5, and 12 pounds per hour, respectively and the two (2) pneumatic abrasive blasting units shall not exceed 2.58 pounds per hour, including both filterable and condensible fractions. Compliance with this limit will satisfy 326 IAC 2-8-4. Therefore, the Part 70 rules (326 IAC 2-7) do not apply.

326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), opacity shall meet the following, unless otherwise stated in this permit:

(a) Opacity shall not exceed an average of twenty percent (20%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

**State Rule Applicability - Individual Facilities**

326 IAC 4-2 (Incinerators)

Pursuant to CP089-3886-00416, issued on January 26, 1995, the two (2) burn-off ovens are subject to the requirements of 326 IAC 4-2 (Incinerators). The burn-off ovens for small and large motors repair shall:

(a) consists of primary and secondary chambers;

(b) be equipped with primary burner;

(c) comply with other states and/or local rules/ordinances regarding installation and operation of incinerates;

(d) be operated so that emission of hazardous material, including, but not limited to, viable pathogenic bacteria, dangerous chemical or gases, or noxious odors are prevented;

(e) be operated according to the manufacturer's recommendation and only burn approved waste (varnish and epoxy);

(f) not exceed an average of 20% opacity in 24 consecutive readings; and

(g) shall not emit particulate matter (PM) in excess of 0.5 pound of PM per 1000 of dry exhaust gas at standard conditions corrected to 50% excess air.

326 IAC 6-1-2 (Particulate Emission Limitations)

(a) Pursuant to CP089-3886-00416, issued on January 26, 1995, the three (3) blasting units (Goff Blast Cabinet, Parts Cleaner, and Pangborn Unit) are not subject to 326 IAC 6-1-2 (Particulate Emission Limitations). The actual PM emissions of the three (3) blasting units are as follows:

Current Operation = (4 motors/week) * (4 hours/week) * (52 weeks/year) = 832 hour/yr

Actual PM emissions = (6.32 lb/hr) * (832 hr/yr) * (1 ton/2000lb) = 2.32 ton/yr

Limiting the potential emission too 99 tons/yr, the hours of operation =
(99 tons/yr) * (2000lb/ton)/(126.4 lb/hr) = 1,566 hr/yr

Since the actual PM emission 2.32 tons/yr is less than 10 ton/yr and the potential emissions is limited to 99 tons per year, which is less than 100 tons per year. Therefore, the three (3) blasting units are not subject to 326 IAC 6-1-2 (Particulate Emission Limitations).

(b) The two (2) pneumatic abrasive blasting units are not subject to 326 IAC 6-1-2 (Particulate Emission Limitations). The actual PM emissions of the two (2) pneumatic abrasive blasting units are 2.40 tons per year, which is less than 10 tons per year and the potential emissions are 70.58 tons per year, which is less than 100 tons per year. Therefore, the two (2) pneumatic abrasive units are not subject to 326 IAC 6-1-2 (Particulate Emission Limitations).

326 IAC 6-1-10.1 (Lake County PM-10 Emission Requirements)

The source is not listed in 326 IAC 6-1-10(d). Therefore, pursuant to 326 IAC 6-1-10(a), the requirements of 326 IAC 6-1-10 do not apply.

326 IAC 6-1-11.1 (Lake County Fugitive Particulate Matter Control Requirements)

This source is not subject to the control requirements of 326 IAC 6-1-11.1 because this source does not have the potential to emit of fugitive particulate matter of five (5) tons per year and is not one of the sources listed under 326 IAC 6-1-11.1(a)(2).

326 IAC 6-3-2 (Process Operations)

(a) Pursuant to CP089-3886-00416, issued on January 26, 1995, the particulate matter (PM) from the three (3) blasting units (Goff Blast Cabinet, Parts Cleaner, and Pangborn Unit) shall be limited by the following:

Interpolation and extrapolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 4.10 P^{0.67}$ where E = rate of emission in pounds per hour and
P = process weight rate in tons per hour

| Blasting Unit | Capacity | | Potential PM Rate (lb/hr) | Allowable PM Rate (lb/hr) | Status |
|---|---|---|---|---|---|
| | (lb/hr) | (ton/yr) | | | |
| Goff Blast Cabinet | 20,000 lb/3 hr | 3.3 | 0.034 | 9.2 | in compliance |
| Parts Cleaner | 40,000 lb/16 hr | 1.25 | 0.009 | 4.76 | in compliance |
| Pangborn Unit | 40,000 lb/4 hr | 5 | 6.32 | 12.05 | in compliance |

The dust collectors shall be in operation at all times the three (3) blasting units (Goff Blast Cabinet, Parts Cleaner, and Pangborn Unit) are in operation, in order to comply with this limit.

(b) Pursuant to 326 IAC 6-3-2 (Process Operations), the particulate matter (PM) from the two (2) pneumatic blasting units shall be limited by the following:

Interpolation and extrapolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 4.10 P^{0.67}$ where E = rate of emission in pounds per hour and
P = process weight rate in tons per hour

$E = 4.10 (0.5)^{0.67} = 2.58$ pounds per hour

Based on this calculation, the controlled potential PM emissions of 0.55 lbs/hr are less than the allowable emissions of 2.58 lbs/hr. Therefore, two (2) pneumatic blasting units comply with the rule.

The baghouse shall be in operation at all times the two (2) pneumatic blasting units are in operation, in order to comply with this limit.

326 IAC 8-2-9 (Miscellaneous Metal Coating Operations)

Pursuant to CP089-3886-00416, issued on January 26, 1995, the paint booth for small and large electrical motors us subject to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations). Pursuant to this rule, the VOC content of the air dried or forced air dried coatings applied to the applicator shall be limited to 3.5 lbs of VOC/gallon of coating used less water. The coatings used has a VOC content of 3.2 lbs of VOC/gallon of coating used less water, therefore complies with this rule.

**Compliance Requirements**

Permits issued under 326 IAC 2-8.1 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAM, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The compliance monitoring requirements applicable to this source are as follows:

1. The three (3) blasting units (Goff Blast Cabinet, Parts Cleaner, and Pangborn Unit) and the two (2) pneumatic abrasive blasting units have applicable compliance monitoring conditions as specified below:

    (a) Daily visible emissions notations of the three (3) blasting units (Goff Blast Cabinet, Parts Cleaner, and Pangborn Unit) and the two (2) pneumatic abrasive blasting unit stack exhaust shall be performed during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Preventive Maintenance Plan for this unit shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.

(b) The Permittee shall record the total static pressure drop across the dust collectors and the baghouses controlling the three (3) blasting units (Goff Blast Cabinet, Parts Cleaner, and Pangborn Unit) and the two (2) pneumatic abrasive blasting units, at least once per shift when the three (3) blasting units (Goff Blast Cabinet, Parts Cleaner, and Pangborn Unit) and the two (2) pneumatic abrasive blasting units are in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop across the dust collectors and the baghouses shall be maintained within the range of 2.0 to 6.0 inches of water or a range established during the latest stack test. The Preventive Maintenance Plan for this unit shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of the above mentioned range for any one reading.

These monitoring conditions are necessary because the dust collectors and the baghouses for the three (3) blasting units (Goff Blast Cabinet, Parts Cleaner, and Pangborn Unit) and the two (2) pneumatic abrasive blasting units must operate properly to ensure compliance with 326 IAC 6-3 (Process Operations) and 326 IAC 2-8 (FESOP).

**Air Toxic Emissions**

Indiana presently requests applicants to provide information on emissions of the 188 hazardous air pollutants (HAPs) set out in the Clean Air Act Amendments of 1990. These pollutants are either carcinogenic or otherwise considered toxic and are commonly used by industries. They are listed as air toxics on the Office of Air Management (OAM) Construction Permit Application Form Y.

(a) This source will emit levels of air toxics less than those which constitute a major source according to Section 112 of the 1990 Clean Air Act Amendments.

(b) See attached calculations for detailed air toxic calculations.

**Conclusion**

The operation of this electrical motor repair shop shall be subject to the conditions of the attached proposed **FESOP No.: F089-11030-00416.**

**Appendix A: Emission Calculations**
**Abrasive Blasting - Confined (Unit #1)**

**Company Name:** Siemens Westinghouse Power Corporation
**Address City IN Zip:** 408 South Shelby St., Hobart, IN 46342
**CP:** 089-11030
**Plt ID:** 089-00416
**Reviewer:** Yvette de los Angeles/EVP
**Date:** 09/15/99

***Table 1 - Emission Factors for Abrasives***

| | Emission Factor | |
|---|---|---|
| Abrasive | lb PM / lb abrasive | lb PM10 / lb PM |
| Sand | 0.041 | 0.70 |
| Grit | 0.010 | 0.70 |
| Steel Shot | 0.004 | 0.86 |
| Other | 0.010 | |

***Table 2 - Density of Abrasives (lb/ft3)***

| Abrasive | Density (lb/ft3) |
|---|---|
| Al oxides | 160 |
| Sand | 99 |
| Steel | 487 |

***Table 3 - Sand Flow Rate (FR1) Through Nozzle (lb/hr)***
Flow rate of Sand Through a Blasting Nozzle as a Function of Nozzle pressure and Internal Diameter

| | Nozzle Pressure (psig) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Internal diameter, in | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| 1/8 | 28 | 35 | 42 | 49 | 55 | 63 | 70 | 77 |
| 3/16 | 65 | 80 | 94 | 107 | 122 | 135 | 149 | 165 |
| 1/4 | 109 | 138 | 168 | 195 | 221 | 255 | 280 | 309 |
| 5/16 | 205 | 247 | 292 | 354 | 377 | 420 | 462 | 507 |
| 3/8 | 285 | 355 | 417 | 477 | 540 | 600 | 657 | 720 |
| 7/16 | 385 | 472 | 560 | 645 | 755 | 820 | 905 | 940 |
| 1/2 | 503 | 615 | 725 | 835 | 945 | 1050 | 1160 | 1265 |
| 5/8 | 820 | 990 | 1170 | 1336 | 1510 | 1680 | 1850 | 2030 |
| 3/4 | 1140 | 1420 | 1670 | 1915 | 2160 | 2400 | 2630 | 2880 |
| 1 | 2030 | 2460 | 2900 | 3340 | 3780 | 4200 | 4640 | 5060 |

**Calculations**

*Adjusting Flow Rates for Different Abrasives and Nozzle Diameters*

Flow Rate (FR) = Abrasive flow rate (lb/hr) with internal nozzle diameter (ID)
FR1 = Sand flow rate (lb/hr) with internal nozzle diameter (ID1) From Table 3 = 280
D = Density of abrasive (lb/ft3) (Provided by source) = 215
D1 = Density of sand (lb/ft3) = 99
ID = Actual nozzle internal diameter (in) = 0.25
ID1 = Nozzle internal diameter (in) from Table 3 = 0.25

**Flow Rate (FR) (lb/hr) =** **608.081** per nozzle

**Uncontrolled Emissions**

EF = emission factor (lb PM/ lb abrasive) From Table 1 = 0.010
FR = Flow Rate (lb/hr) = 608.081
w = fraction of time of wet blasting = 0 %
N = number of nozzles = 1

| **Uncontrolled Emissions =** | **6.08 lb/hr** |
|---|---|
| | **26.63 ton/yr** |

**Controlled Emissions**

Control Efficiency (%) = 96.60%

| **Controlled Emissions =** | **0.21 lb/hr** |
|---|---|
| | **0.91 ton/yr** |

METHODOLOGY

Emission Factors from STAPPA/ALAPCO "Air Quality Permits", Vol. I, Section 3 "Abrasive Blasting" (1991 edition)
Ton/yr = lb/hr X 8760 hr/yr X ton/2000 lbs
Flow Rate (FR) (lb/hr) = FR1 x (ID/ID1)2 x (D/D1)
Uncontrolled Emissions = EF x FR x (1-w/200) x N
Controlled Emissions = Uncontrolled emissions * (1 - control efficiency)

**Appendix A: Emission Calculations**
**Abrasive Blasting - Confined (Unit #2)**

**Company Name:** Siemens Westinghouse Power Corporation
**Address City IN Zip:** 408 South Shelby St., Hobart, IN 46342
**CP:** 089-11030
**Plt ID:** 089-00416
**Reviewer:** Yvette de los Angeles/EVP
**Date:** 09/15/99

***Table 1 - Emission Factors for Abrasives***

| | Emission Factor | |
|---|---|---|
| Abrasive | lb PM / lb abrasive | lb PM10 / lb PM |
| Sand | 0.041 | 0.70 |
| Grit | 0.010 | 0.70 |
| Steel Shot | 0.004 | 0.86 |
| Other | 0.010 | |

***Table 2 - Density of Abrasives (lb/ft3)***

| Abrasive | Density (lb/ft3) |
|---|---|
| Al oxides | 160 |
| Sand | 99 |
| Steel | 487 |

***Table 3 - Sand Flow Rate (FR1) Through Nozzle (lb/hr)***

Flow rate of Sand Through a Blasting Nozzle as a Function of Nozzle pressure and Internal Diameter

| | Nozzle Pressure (psig) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Internal diameter, in | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| 1/8 | 28 | 35 | 42 | 49 | 55 | 63 | 70 | 77 |
| 3/16 | 65 | 80 | 94 | 107 | 122 | 135 | 149 | 165 |
| 1/4 | 109 | 138 | 168 | 195 | 221 | 255 | 280 | 309 |
| 5/16 | 205 | 247 | 292 | 354 | 377 | 420 | 462 | 507 |
| 3/8 | 285 | 355 | 417 | 477 | 540 | 600 | 657 | 720 |
| 7/16 | 385 | 472 | 560 | 645 | 755 | 820 | 905 | 940 |
| 1/2 | 503 | 615 | 725 | 835 | 945 | 1050 | 1160 | 1265 |
| 5/8 | 820 | 990 | 1170 | 1336 | 1510 | 1680 | 1850 | 2030 |
| 3/4 | 1140 | 1420 | 1670 | 1915 | 2160 | 2400 | 2630 | 2880 |
| 1 | 2030 | 2460 | 2900 | 3340 | 3780 | 4200 | 4640 | 5060 |

**Calculations**

*Adjusting Flow Rates for Different Abrasives and Nozzle Diameters*

| | |
|---|---|
| Flow Rate (FR) = Abrasive flow rate (lb/hr) with internal nozzle diameter (ID) | |
| FR1 = Sand flow rate (lb/hr) with internal nozzle diameter (ID1) From Table 3 = | 462 |
| D = Density of abrasive (lb/ft3) (Provided by source) = | 215 |
| D1 = Density of sand (lb/ft3) = | 99 |
| ID = Actual nozzle internal diameter (in) = | 0.3125 |
| ID1 = Nozzle internal diameter (in) from Table 3 = | 0.3125 |

**Flow Rate (FR) (lb/hr) =** **1003.333** per nozzle

**Uncontrolled Emissions**

| | |
|---|---|
| EF = emission factor (lb PM/ lb abrasive) From Table 1 = | 0.010 |
| FR = Flow Rate (lb/hr) = | 1003.333 |
| w = fraction of time of wet blasting = | 0 % |
| N = number of nozzles = | 1 |

| | |
|---|---|
| **Uncontrolled Emissions =** | **10.03 lb/hr** |
| | **43.95 ton/yr** |

**Controlled Emissions**

| | |
|---|---|
| Control Efficiency (%) = | 96.60% |

| | |
|---|---|
| **Controlled Emissions =** | **0.34 lb/hr** |
| | **1.49 ton/yr** |

METHODOLOGY

Emission Factors from STAPPA/ALAPCO "Air Quality Permits", Vol. I, Section 3 "Abrasive Blasting" (1991 edition)
Ton/yr = lb/hr X 8760 hr/yr X ton/2000 lbs
Flow Rate (FR) (lb/hr) = FR1 x (ID/ID1)2 x (D/D1)
Uncontrolled Emissions = EF x FR x (1-w/200) x N
Controlled Emissions = Uncontrolled emissions * (1 - control efficiency)

**Appendix A: Emissions Calculations**
**Natural Gas Combustion Only**
**MM BTU/HR <100**

**Company Name:** **Siemens Westinghouse Power Corporation**
**Address City IN Zip:** **408 South Shelby St., Hobart, IN 46342**
**CP:** **089-11030**
**Plt ID:** **089-00416**
**Reviewer:** **Yvette de los Angeles/EVP**
**Date:** **09/15/99**

| Heat Input Capacity MMBtu/hr | Potential Throughput MMCF/yr |
|---|---|
| 17.7 | 154.9 |

| | Pollutant | | | | | |
|---|---|---|---|---|---|---|
| | PM* | PM10* | SO2 | NOx | VOC | CO |
| Emission Factor in lb/MMCF | 1.9 | 7.6 | 0.6 | 100.0<br>**see below | 5.5 | 84.0 |
| Potential Emission in tons/yr | 0.1 | 0.6 | 0.0 | 7.7 | 0.4 | 6.5 |

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.
**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

**Methodology**

All emission factors are based on normal firing.
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu
Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)
Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
See page 4 for HAPs emissions calculations.

**Appendix A: Emissions Calculations**
**Natural Gas Combustion Only**
**MM BTU/HR <100**
**HAPs Emissions**

**Company Name:** **Siemens Westinghouse Power Corporation**
**Address City IN Zip:** **408 South Shelby St., Hobart, IN 46342**
**CP:** **089-11030**
**Plt ID:** **089-00416**
**Reviewer:** **Yvette de los Angeles/EVP**
**Date:** **09/15/99**

HAPs - Organics

| | Benzene | Dichlorobenzene | Formaldehyde | Hexane | Toluene |
|---|---|---|---|---|---|
| Emission Factor in lb/MMcf | 2.1E-03 | 1.2E-03 | 7.5E-02 | 1.8E+00 | 3.4E-03 |
| Potential Emission in tons/yr | 1.626E-04 | 9.293E-05 | 5.808E-03 | 1.394E-01 | 2.633E-04 |

HAPs - Metals

| | Lead | Cadmium | Chromium | Manganese | Nickel |
|---|---|---|---|---|---|
| Emission Factor in lb/MMcf | 5.0E-04 | 1.1E-03 | 1.4E-03 | 3.8E-04 | 2.1E-03 |
| Potential Emission in tons/yr | 3.872E-05 | 8.518E-05 | 1.084E-04 | 2.943E-05 | 1.626E-04 |

Methodology is the same as page 3.

The five highest organic and metal HAPs emission factors are provided above.
Additional HAPs emission factors are available in AP-42, Chapter 1.4.

**Appendix A: Emissions Calculations**
**VOC and Particulate**
**From Surface Coating Operations**

**Company Name:** Siemens Westinghouse Power Corporation
**Address City IN Zip:** 408 South Shelby St., Hobart, IN 46342
**CP:** 089-11030
**Plt ID:** 089-00416
**Reviewer:** Yvette de los Angeles/EVP
**Date:** 09/15/99

| Material | Density (Lb/Gal) | Weight % Volatile (H20 & Organics) | Weight % Water | Weight % Organics | Volume % Water | Volume % Non-Volatiles (solids) | Gal of Mat. (gal/unit) | Maximum (unit/hour) | Pounds VOC per gallon of coating less water | Pounds VOC per gallon of coating | Potential VOC pounds per hour | Potential VOC pounds per day | Potential VOC tons per year | Particulate Potential (ton/yr) | lb VOC/gal solids | Transfer Efficiency |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Varnish (small motor) | 8.8 | 16.00% | 0.0% | 16.0% | 0.0% | NA | 2.00 | 0.125 | 1.41 | 1.41 | 0.35 | 8.44 | 1.54 | 0.00 | NA | 100% |
| Varnish (large motor) | 8.8 | 16.00% | 0.0% | 16.0% | 0.0% | NA | 10.00 | 0.050 | 1.41 | 1.41 | 0.70 | 16.88 | 3.08 | 0.00 | NA | 100% |
| Enamel (small motor) | 8.1 | 39.60% | 0.0% | 39.6% | 0.0% | NA | 0.25 | 0.125 | 3.20 | 3.20 | 0.10 | 2.40 | 0.44 | 0.00 | NA | 100% |
| Enamel (large motor) | 8.1 | 39.60% | 0.0% | 39.6% | 0.0% | NA | 1.00 | 0.050 | 3.21 | 3.21 | 0.16 | 3.85 | 0.70 | 0.00 | NA | 100% |
| **ate Potential Emissions** | | | **Add worst case coating to all solvents** | | | | | | | | **1.32** | **31.56** | **5.76** | **0.00** | | |

METHODOLOGY

Pounds of VOC per Gallon Coating less Water = (Density (lb/gal) * Weight % Organics) / (1-Volume % water)
Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % Organics)
Potential VOC Pounds per Hour = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr)
Potential VOC Pounds per Day = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (24 hr/day)
Potential VOC Tons per Year = Pounds of VOC per Gallon coating (lb/gal) * Gal of Material (gal/unit) * Maximum (units/hr) * (8760 hr/yr) * (1 ton/2000 lbs)
Particulate Potential Tons per Year = (units/hour) * (gal/unit) * (lbs/gal) * (1- Weight % Volatiles) * (1-Transfer efficiency) *(8760 hrs/yr) *(1 ton/2000 lbs)
Pounds VOC per Gallon of Solids = (Density (lbs/gal) * Weight % organics) / (Volume % solids)
Total = Worst Coating + Sum of all solvents used

**Appendix A: Process Particulate Emissions**

**Company Name:** Siemens Westinghouse Power Corporation
**Address City IN Zip:** 408 South Shelby St., Hobart, IN 46342
**CP:** 089-11030
**Plt ID:** 089-00416
**Reviewer:** Yvette de los Angeles/EVP
**Date:** 09/15/99

**Uncontrolled Potential Emissions (tons/year)**

**A. Dust Collectors**

| Process | No. of Units | Grain Loading per Actual Cubic Foot of Outlet Air | Air to Cloth Ratio Air Flow (acfm/ft²) | Total Filter Area (ft²) | Control Efficiency | Total (tons/yr) |
|---|---|---|---|---|---|---|
| | | | | | | |
| Goff Blast Cabinet (E-1) | 1 | 0.010 | 3.2 | 125 | 98.00% | 7.51 |
| Parts Cleaner (E-4) | 1 | 0.010 | 5.0 | 20 | 99.50% | 7.51 |
| Pangborn Unit (E-10) | 1 | 0.141 | 3.4 | 1,539 | 95.00% | 553.98 |
| | | | | | | |

Total Emissions Based on Rated Capacity at 8,760 Hours/Year **569.00**

**Controlled Potential Emissions (tons/year)**

**A. Dust Collectors**

| Process | No. of Units | Grain Loading per Actual Cubic Foot of Outlet Air | Air to Cloth Ratio Air Flow (acfm/ft²) | Total Filter Area (ft²) | Control Efficiency | Total (tons/yr) |
|---|---|---|---|---|---|---|
| | | | | | | |
| Goff Blast Cabinet (E-1) | 1 | 0.010 | 3.2 | 125 | 98.00% | 0.15 |
| Parts Cleaner (E-4) | 1 | 0.010 | 5.0 | 20 | 99.50% | 0.04 |
| Pangborn Unit (E-10) | 1 | 0.141 | 3.4 | 1,539 | 95.00% | 27.70 |
| | | | | | | |

Total Emissions Based on Rated Capacity at 8,760 Hours/Year and source controls **27.89**

Methodology:

State Potential (uncontrolled):

Baghouse (tons/yr) = No. Units * Loading (grains/acf) * Air/Cloth Ratio (acfm/ft²) * Filter Area (ft²) * 1 lb/7,000 grains * 60 min/hr * 8760 hr/yr * 1 ton/2,000 lbs * 1/(1-Control Efficiency)

Federal Potential (controlled):

Baghouse (tons/yr) = No. Units * Loading (grains/acf) * Air/Cloth Ratio (acfm/ft²) * Filter Area (ft²) * 1 lb/7,000 grains * 60 min/hr * 8760 hr/yr * 1 ton/2,000 lbs